

WHAT IS CLAIMED IS:

1. A method for delivering a calling party's location comprising:

sub a 1 a) receiving a call at a central office, wherein data associated with the call includes a directory number of the calling party;

5 b) triggering a query to a service control point;

c) retrieving location information associated with the calling party;

d) returning the location information to the central office; and

e) terminating the call and delivering the location information to a called party.

10 2. The method of claim 1, wherein if the call is from a stationary device, the method further comprises the step of recording the location information during the calling party's service activation.

3. The method of claim 2, wherein the calling party's location information is a location where the stationary telephone is installed.

Sub B 15 4. The method of claim 1, wherein if the call is from a mobile device, the method further comprises the step of recording the location information after the call originates and before the call is received at the central office.

5. The method of claim 4, the step of recording the location information comprises using a location system to determine a current location of the mobile
20 device.

6. The method of claim 5, wherein the current location is in raw form and wherein the step of recording the location information further comprises translating the current location into a displayable form.

7. The method of claim 1, wherein the step of retrieving the location information
5 comprises searching a database for the calling party's location information using the directory number.

8. The method of claim 1, wherein the step of retrieving the location information further comprises translating the location information to a displayable form.

9. The method of claim 8, wherein the location information is global positioning
10 system coordinates.

10. The method of claim 8, wherein the displayable form is selected from the group consisting of a street address, a landmark, and a building name.

11. The method of claim 1, wherein delivering the location information uses a medium selected from the group consisting of textual displays, graphical displays,
15 and audio messages.

12. The method of claim 1, wherein the directory number is a telephone number of the calling party.

13. The method of claim 1, wherein the query to the service control point requests location information of the calling party.

14. The method of claim 1, wherein the database cross-references directory numbers with location information of the directory numbers.

Sub B1
15. The method of claim 1, wherein a network that tracks locations of network devices provides the location information.

5 16. The method of claim 15, wherein the network provides enhanced 911 services.

17. A system for delivering a calling party's location information, the system comprising:

Sub a2
10 a) an address database cross-referencing location descriptions with directory numbers; and

b) a service control point in communication with the address database, wherein the service control point is adapted to receive a communication including a directory number of a calling party, to search the address database for a location description corresponding to the directory number, and to forward the
15 location description.

18. The system of claim 17, wherein the communication is a query for routing instructions, the service control point is adapted to provide routing instructions, and the service control point returns routing instructions with the location description to a central office that forwards the location description to a display unit.

19. The system of claim 18, wherein the routing instructions are in the form of a transaction capability application part response.

20. The system of claim 17, further comprising a network that tracks locations of network devices, wherein the network records the location descriptions in the
5 address database.

21. The system of claim 20, wherein the network devices are mobile devices and the network continually updates the address database with new location descriptions.

22. The system of claim 20, wherein the network devices are stationary devices
10 and the network records the location descriptions of the stationary devices upon installation of the stationary devices.

23. The system of claim 20, wherein network is a wireless network that supports enhanced 911 services.

24. The system of claim 20, wherein the network includes a handheld device
15 location system that provides the location descriptions.

25. The system of claim 24, wherein the handheld device location system is a global positioning system.

26. The system of claim 20, wherein the network includes a network-based location system that provides the location descriptions.

27. The system of claim 26, wherein the network-based location system is a Wireless Application Protocol location system.

28. The system of claim 20, further comprising a mapping converter that translates the location descriptions from raw form to displayable form.

5 29. The system of claim 28, wherein the mapping converter is in communication with the service control point.

30. The system of claim 28, wherein the mapping converter is in communication with the network that tracks location of network devices.

31. The system of claim 17, further comprising a name database cross-
10 referencing calling party names with directory numbers,

wherein the service control point is further adapted to search the name database for a name corresponding to the directory number, and to forward the name to a display unit, and

wherein the display unit displays the location description and the name.

15 32. The system of claim 31, wherein the display unit is a calling name display unit.

sub a3 33. A service control point for delivering a calling party's location information, the service control point comprising:

a) a first communication link for receiving a query requesting location information of a network device, the query including a directory number of the network device; and

sub a 3
cont
5 b) a second communication link to an address database that cross-references calling party location information with directory numbers,

wherein the service control point is adapted to receive the query and to search the address database for the calling party's location information corresponding to the directory number.

34. The service control point of claim 33, wherein the service control point is adapted to receive an integrated services digital network user part signaling message containing a calling party directory number, a called party directory number, and a presentation parameter.

35. The service control point of claim 33, wherein the service control point returns a transaction capability application part response including the calling party's location information and call routing instructions.

36. The service control point of claim 33, further comprising a third communication link to a name database that cross-references calling party names with directory numbers,

wherein the service control point is further adapted to search the name database for a calling party name corresponding to the directory number and the transaction capability application part response includes a calling party name.

37. The service control point of claim 33, further comprising a mapping converter that translates the calling party's location information from raw to displayable form.

38. A system for delivering a calling party's location information, the system comprising:

a) an address database that lists directory numbers and their associated locations;

b) a service control point in communication with the address database; and

c) a wireless network having a location system that tracks locations of wireless network devices,

wherein the service control point is adapted to search the address database using a directory number, and to forward an associated location of the directory number.

39. The system of claim 38, wherein the wireless network includes a mapping converter that translates the associated location from a raw to displayable form.

40. The system of claim 38, wherein the service control point includes a mapping converter that translates the associated location from a raw to displayable form.

41. The system of claim 38, wherein the system is a part of a calling name delivery service and the system further comprises a name database that lists directory numbers and their associated calling party names,

wherein the service control point is adapted to search the name database using a directory number, and to forward an associated calling party name of the directory number to a display unit.

42. A method for delivering a wireless calling party's location as part of a calling name delivery service, the method comprising:

- a) receiving at a central office a call to a subscriber of the calling name delivery service, the call including a directory number of the wireless calling party;
- b) triggering a query to a service control point requesting call routing instructions;
- c) retrieving a location and a name of the calling party using the directory number;
- d) if the location is raw, translating the location into displayable form;
- e) returning the call routing instructions, the name, and the location to the central office;
- f) forwarding the call, the name, and the location to the subscriber; and

